



## Golf Club Shaft

### BACKGROUND OF THE INVENTION

#### Field of the Invention

5           The present invention relates to a golf club shaft and more particularly to a golf club shaft in which the center of gravity of the head is lowered in such a way as to maintain the strength of the shaft at its tip side on which a head is mounted and which is flexible to fly a golf ball at a large  
10 elevation angle.

#### Description of the Related Art

          In recent years, a golf club shaft composed of a reinforcing fiber such as a carbon fiber having a high specific strength and a high specific rigidity is manufactured  
15 and commercially available. As the specific strength and the specific rigidity of the carbon fiber become higher, a lightweight golf club shaft can be manufactured.

          To allow the golf ball to fly in a high trajectory, there is a tendency that the center of gravity of the head is  
20 located at a lower position thereof and that the neck (portion on which shaft is mounted) of the head is short and thin. As the neck becomes short and thin, a higher stress is applied to the tip side of the shaft. Therefore it is very important that the tip side has a high strength.

25           If the diameter of the shaft at its tip side to increase

*Substitute specification*

*Approved J. Blum 2/28/05*